

P#17

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TECH CENTER 1600/2900 ENTERED

1600

RAW SEQUENCE LISTING

DATE: 04/24/2002

PATENT APPLICATION: US/09/617,174B

TIME: 15:58:11

Input Set : A:\SEQUENCE LISTING.TXT

Output Set: N:\CRF3\04242002\I617174B.raw

```

4 <110> APPLICANT: Arthur Pardee, executor for Ruth Sager, deceased
5   Zhang, Ming
7 <120> TITLE OF INVENTION: TRANSCRIPTIONAL REGULATORY SEQUENCE AND USES THEREOF
9 <130> FILE REFERENCE: 00530-079003
11 <140> CURRENT APPLICATION NUMBER: US 09/617,174B
12 <141> CURRENT FILING DATE: 2000-07-17
14 <150> PRIOR APPLICATION NUMBER: US 09/155,380
15 <151> PRIOR FILING DATE: 1998-09-28
17 <150> PRIOR APPLICATION NUMBER: PCT/US97/05186
18 <151> PRIOR FILING DATE: 1997-03-28
20 <150> PRIOR APPLICATION NUMBER: US 60/014,368
21 <151> PRIOR FILING DATE: 1996-03-28
23 <160> NUMBER OF SEQ ID NOS: 20
25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 1141
29 <212> TYPE: DNA
30 <213> ORGANISM: Homo sapiens
32 <400> SEQUENCE: 1
33 agataagcac agcagagaag caaccagctc cgtttcaggt cctttcctga ggctgattcg      60
34 gctggaaggg agtaggtccc accaaatgaa gaagctgtgg gaagacagga ggacaagaac      120
35 aggctccacg aagagatttc agagcagagc tgcgtactcc tttttctttt tgtttctttt      180
36 gctctgtcac ccaggctgaa gtacagtggg tagctcacgg ctactgcag ctttgacctc      240
37 ccaggctcaa gtgatcctct cgtctcagct ttccaagtaa ctgggaccac aggcattgcat      300
38 caccacgcta ggctattgtt ttacattttt tgtagagatg gggctctacc atgttgccca      360
39 gggttggtctc aaactcctgg gctcaagcaa tccgctcacg tcaacctccc caaatgctgg      420
40 gattacaggc gtgagccacc gggccagggc tgagtaatcc taatcacagg attttaaaaa      480
41 gaaacttcct gcgccacca ttaaacaata tctcctacca atttggtagt aaatattttg      540
42 ctaatagtac ctaattttta ggtaggcact gtgtttatac atatattccat tccttctttt      600
43 ttgattgtct ttctgtttta tgggcagcta cctctcttgg catctagcag aatgagctgc      660
44 tgcagtttac acaaaaagaa tggagatcag agtacttttt gtgccaccaa cgtgtctgag      720
45 aaattttagt tgttactatc atcacacatt acttttattt catcgaatat ttcaccttcc      780
46 ggtcctgcgt gggccgagag gattgccgta cgcattgtctg tacgtatgca tgtaactcac      840
47 agcccccttc tgcccgaaca tgttgaggc cttttggaag ctgtgcagac aacagcaact      900
48 tcagcctgaa tcatctcttt caattgtgga caagctgcca agaggcttga gtaggagagg      960
49 agtgccgcgc agggcgggcg gggcgggcg tggagctggg ctggcagtg gcggtggcgg      1020
50 gctgcccgag tgagccaccg ctgcttctgc ccagacacgg tcgcctccac atccaggtct      1080
51 ttgtgctcct cgcttgcttg ttccttttcc acgcattttc caggataact gtgactccag      1140
52 g
55 <210> SEQ ID NO: 2
56 <211> LENGTH: 51
57 <212> TYPE: DNA
58 <213> ORGANISM: Artificial Sequence

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60 <220> FEATURE:
61 <223> OTHER INFORMATION: oligonucleotide for PCR
63 <400> SEQUENCE: 2
64 tcaccagtta tcctggaaaa tgcgtggaaa aggaacaggc aagcgaggag c
66 <210> SEQ ID NO: 3
67 <211> LENGTH: 20
68 <212> TYPE: DNA
69 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
72 <223> OTHER INFORMATION: oligonucleotide for PCR
74 <400> SEQUENCE: 3
75 cagcccttc ctgcccgaac 20
77 <210> SEQ ID NO: 4
78 <211> LENGTH: 21
79 <212> TYPE: DNA
80 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
83 <223> OTHER INFORMATION: oligonucleotide for PCR
85 <400> SEQUENCE: 4
86 gtcggggaag gacggggctt g 21
88 <210> SEQ ID NO: 5
89 <211> LENGTH: 20
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial Sequence.
93 <220> FEATURE:
94 <223> OTHER INFORMATION: oligonucleotide for PCR
96 <400> SEQUENCE: 5
97 cagcccttt ttgcccgaac 20
99 <210> SEQ ID NO: 6
100 <211> LENGTH: 20
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: oligonucleotide for PCR
107 <400> SEQUENCE: 6
108 gtcggggaaa aacgggcttg 20
110 <210> SEQ ID NO: 7
111 <211> LENGTH: 22
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: oligonucleotide for PCR
118 <400> SEQUENCE: 7
119 ccttgtcaga caggcaagtg cc 22
121 <210> SEQ ID NO: 8
122 <211> LENGTH: 22
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:

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127 <223> OTHER INFORMATION: oligonucleotide for PCR
129 <400> SEQUENCE: 8
130 ggaacagtct gtccgttcac gg                                22
132 <210> SEQ ID NO: 9
133 <211> LENGTH: 19
134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: oligonucleotide for PCR
140 <400> SEQUENCE: 9
141 agtactctga tctccattc                                    19
143 <210> SEQ ID NO: 10
144 <211> LENGTH: 19
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
149 <223> OTHER INFORMATION: oligonucleotide for PCR
151 <400> SEQUENCE: 10
152 gaatggagat cagagtact                                    19
154 <210> SEQ ID NO: 11
155 <211> LENGTH: 27
156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: oligonucleotide for PCR
162 <400> SEQUENCE: 11
163 ctaggctgta caggatgttc tgcctag                            27
165 <210> SEQ ID NO: 12
166 <211> LENGTH: 27
167 <212> TYPE: DNA
168 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: oligonucleotide for PCR
173 <400> SEQUENCE: 12
174 gatccgacat gtcctacaag acggatc                            27
177 <210> SEQ ID NO: 13
178 <211> LENGTH: 21
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: oligonucleotide for PCR
185 <400> SEQUENCE: 13
186 ccttggtcaga caggcaagtc c                                21
188 <210> SEQ ID NO: 14
189 <211> LENGTH: 22
190 <212> TYPE: DNA
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: oligonucleotide for PCR

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196 <400> SEQUENCE: 14
197 ggaacagtct grccgttcac gg                                22
199 <210> SEQ ID NO: 15
200 <211> LENGTH: 38
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: oligonucleotide for PCR
207 <400> SEQUENCE: 15
208 aactgcagtt tacacaaaaa gaatgatatc cggagtac                38
210 <210> SEQ ID NO: 16
211 <211> LENGTH: 28
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: oligonucleotide for PCR
218 <400> SEQUENCE: 16
219 ggtggtatat ccagtgattt ttttctcc                            28
221 <210> SEQ ID NO: 17
222 <211> LENGTH: 25
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: oligonucleotide for PCR
229 <400> SEQUENCE: 17
230 gatccagtac tctgatctcc attcg                                25
232 <210> SEQ ID NO: 18
233 <211> LENGTH: 25
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: oligonucleotide for PCR
240 <400> SEQUENCE: 18
241 gatccgaatg gagatcagag tactg                                25
243 <210> SEQ ID NO: 19
244 <211> LENGTH: 15
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: consensus sequence
W--> 251 <221> NAME/KEY: misc_feature
252 <222> LOCATION: (1)...(15)
253 <223> OTHER INFORMATION: n = A,T,C or G
W--> 255 <400> 19
W--> 256 ggtacannnt gtyct                                    15
258 <210> SEQ ID NO: 20
259 <211> LENGTH: 14
260 <212> TYPE: DNA
261 <213> ORGANISM: Homo sapiens

```

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263 <400> SEQUENCE: 20

264 gtactctgat ctcc

14

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/617,174B

DATE: 04/24/2002
TIME: 15:58:12

Input Set : A:\SEQUENCE LISTING.TXT
Output Set: N:\CRF3\04242002\I617174B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:19; N Pos. 7,8,9

VERIFICATION SUMMARY

DATE: 04/24/2002

PATENT APPLICATION: US/09/617,174B

TIME: 15:58:12

Input Set : A:\SEQUENCE LISTING.TXT

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L:251 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!

L:255 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:19

L:256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0